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(54) Title: FLUID COMPOSITION USED TO SIMULATE HUMAN SYNOVIAL FLUID

(57) Abstract: An artificial synovial fluid comprising a serum, a chelator, and a buffer is provided. In particular embodiments, the artificial synovial fluid may further comprise an antibiotic. The artificial synovial fluid is generally used in tribological testing of medical device implants such as artificial joints. Methods of using and making the artificial synovial fluid are also provided.